

What is claimed is:

1. A method of extending debug functions of a debugger system for debugging the operation of a target system, said method comprising:

5 registering by a framework module a function module in which are provided at least one of an option menu information item, a window information item and an input button information item for use in generating at least one an option menu, a window and an input button through which a predetermined debug function is controlled;

10 registering said at least one of the option menu information item, the window information item and the input button information item by an interface generation unit which includes at least one of an option menu generation unit, a window generation unit and an button generation unit; and

15 creating said at least one of said option menu, said window and said input button with reference to said at least one of the option menu information item, the window information item and the input button information item in order to control the operation of the debugger system through a manipulation screen thereof.

2. The method of extending debug functions of a debugger system as claimed in claim 1 wherein

20 when the debug function is selected in the debugger system to use the debug function for debugging the operation of the target system, said framework module serves to call said function module corresponding to the debug function as selected; and wherein

25 displaying said at least one of said option menu, said window and said input button in the manipulation screen in order that said debugger system performs debugging in accordance with the debug function as selected by manipulation of said at least one of said option menu, said window and said input button.

3. A debugger system for debugging the operation of a target system, said target system comprising:

a debugger program as installed in a computer and configured to register by a framework module a function module including at least one of an option menu information item, a window information item and an input button information item for use in generating at least one an option menu, a window and an input button through which a predetermined debug function, to register said at least one of the option menu information item, the window information item and the input button information item in an interface generation unit which includes at least one of an option menu generation unit, a window generation unit and an button generation unit; and to create said at least one of said option menu, said window and said input button with reference to said at least one of the option menu information item, the window information item and the input button information item in order to enable manipulation of the debugger system through a manipulation screen thereof,

when the debug function is selected in the debugger system to use the debug function for debugging the operation of the target system, said framework module serves to call said function module corresponding to the debug function as selected; and wherein displaying said at least one of said option menu, said window and said input button in the manipulation screen in order that said debugger system performs debugging the target system in accordance with the debug function as selected by manipulation of said at least one of said option menu, said window and said input button; and

a test tool configured to save said function module to be registered in said debugger program so that it takes control of debugging processes and to make it possible that said function module is dynamically linked to said debugger program when the function module is registered.

4. A debugger program product comprising a computer readable medium having computer program logic stored therein for debugging the operation of a target system, said debugger program product including:

a program routine configured to register by a framework module a function module in which are provided at least one of an option menu information item, a window

information item and an input button information item for use in generating at least one  
an option menu, a window and an input button through which a predetermined debug  
function is controlled;

a program routine configured to register said at least one of the option menu  
information item, the window information item and the input button information item by  
an interface generation unit which includes at least one of an option menu generation unit,  
a window generation unit and an button generation unit; and

a program routine configured to create said at least one of said option menu, said  
window and said input button with reference to said at least one of the option menu  
information item, the window information item and the input button information item in  
order to control the operation of the debugger system through a manipulation screen  
thereof.

5. A debugger program product comprising a computer readable medium having computer  
program logic stored therein for debugging the operation of a target system which is  
provided with a microprocessor, said debugger program product including:

a framework module configured such that it can be dynamically linked to a  
function module which serves to provide a debug function for use in debugging the  
operation of said target system and can be connected to a simulator capable of performing  
the simulation of said target system in order to debug the operation of said target system  
by the use of the debug function of said function module.

6. A debugger program product as claimed in claim 5 comprising a computer readable  
medium having computer program logic stored therein for debugging the operation of a  
target system which is provided with a microprocessor, wherein

said function module is provided with at least one of an option menu information  
item, a window information item and an input button information item for use in  
generating at least one an option menu, a window and an input button through which a  
predetermined debug function is controlled; and wherein

said framework module refers to said at least one of the option menu information  
 item, the window information item and the input button information item for creating  
 said at least one of said option menu, said window and said input button with reference to  
 said at least one of the option menu information item, the window information item and  
 5 the input button information item in response to a request by a user in order to control the  
 operation of the debugger system through a manipulation screen thereof.